

2SA673A (PNP) and 2SC1213A (NPN) are silicon epitaxial transistors designed for medium power amplifiers and switching applications. 2SA673A (PNP) is complementary to 2SC1213A (NPN).

TO-92



ECB

#### ABSOLUTE MAXIMUM RATINGS

|                                          |          |               |
|------------------------------------------|----------|---------------|
| Collector-Base Voltage                   | VCBO     | 50V           |
| Collector-Emitter Voltage                | VCEO     | 50V           |
| Emitter-Base Voltage                     | VEBO     | 4V            |
| Collector Current                        | IC       | 500mA         |
| Total Power Dissipation                  | Ptot     | 400mW         |
| Operating Junction & Storage Temperature | Tj, Tstg | -55 to +150°C |

#### ELECTRICAL CHARACTERISTICS (TA=25°C)

| PARAMETER                            | SYMBOL   | MIN      | MAX | UNIT | TEST CONDITIONS   |
|--------------------------------------|----------|----------|-----|------|-------------------|
| Collector Cutoff Current             | ICBO     |          | 500 | nA   | VCB=20V IE=0      |
| D.C. Current Gain                    | HFE      | 60       | 320 |      | IC=10mA VCE=3V    |
| Collector-Emitter Saturation Voltage | VCE(sat) |          | 0.4 | V    | IC=100mA IB=10mA* |
| Base-Emitter Saturation Voltage      | VBE(sat) |          | 1   | V    | IC=100mA IB=10mA* |
| Collector-Base Breakdown Voltage     | BVCBO    | 50       |     | V    | IC=100μA IE=0     |
| Collector-Emitter Breakdown Voltage  | LVCEO    | 50       |     | V    | IC=10mA IB=0      |
| Emitter-Base Breakdown Voltage       | BVEBO    | 4        |     | V    | IE=100μA IC=0     |
| Current Gain-Bandwidth Product       | fT       | 120 TYP. |     | MHz  | IC=10mA VCE=10V   |
| Output Capacitance                   | Cob      | 7TYP.    |     | pF   | VCB=10V f=1MHz    |



MICRO ELECTRONICS LTD. 美科有限公司 \* Pulse Test.

38 Hung To Road, Kwun Tong, Kowloon, Hong Kong. Cable: Microtron, Hong Kong. Telex: 43510 Micro Hx.  
P.O. Box 49477, Kwun Tong. Tel: 3-430181-6, 3-893363, 3-892423, 3-898221

FAX: 3-410321

